

Please add the following new claims:

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--18. An image processing apparatus according to claim 2,  
wherein the reproducing environment converting unit converts the  
image with reference to the photographing environment information  
including at least one of image pickup information, photographing  
light source information and object three-dimensional form  
information, and the observing environment information including  
at least one of illuminating light form information in an  
observing place, illuminating light position information in the  
observing place, object direction information, object position  
information and observer position information.

19. An image processing apparatus according to claim 5,

wherein the reproducing environment converting unit comprises at  
least one of an image composing and interpolating unit, a  
specular reflecting component separating unit, and an object  
three-dimensional form recognizing unit, and utilizes it when  
calculating reproducing environment image.

20. An image processing apparatus according to claim 6,

wherein the reproducing environment converting unit comprises at  
least one of an image composing and interpolating unit, a  
specular reflecting component separating unit, and an object  
three-dimensional form recognizing unit, and utilizes it when  
calculating reproducing environment image.

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21. An image processing apparatus according to claim 7, wherein the reproducing environment converting unit comprises at least one of an image composing and interpolating unit, a specular reflecting component separating unit, and an object three-dimensional form recognizing unit, and utilizes it when calculating reproducing environment image.

22. An image processing apparatus according to claim 8, wherein the reproducing environment converting unit comprises at least one of an image composing and interpolating unit, a specular reflecting component separating unit, and an object three-dimensional form recognizing unit, and utilizes it when calculating reproducing environment image.

23. An image processing apparatus according to claim 2, wherein the reproducing environment converting unit comprises:

a reproducing environment-variable image data producing unit for producing reproducing environment-variable image data by using the photographing environment formation;

data transmitting means for transmitting the reproducing environment-variable image data produced by the reproducing environment-variable image data producing unit through a portable recording medium or a network; and

a reproducing environment-variable image data processing unit for converting the image in accordance with reproducing

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environment by using the reproducing environment information.

24. An image processing apparatus according to claim 2, wherein the image input apparatus controls a turntable for rotating the object at a desired angle, and automatically photographs images at a plurality of angles.

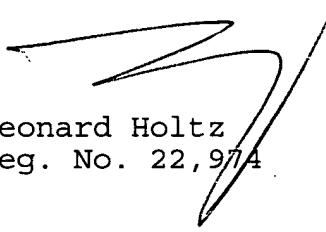
25. An image processing apparatus according to claim 2, wherein the image input apparatus moves a point light source to a desired position and photographs the object illuminated with the point light source in a desired angle in accordance with a preset program.

26. An image processing apparatus according to claim 2, wherein the image is photographed by a single camera or two cameras stereoscopically arranged, constituting the image input apparatus, the camera being selected from the group consisting of a digital still camera, a video camera and a multi-spectrum camera.

27. An image processing apparatus according to claim 2, wherein the image output apparatus comprises a head mounting display for displaying the processed image of the object, and one of a stereoscopic image and a holographic image is displayed in the head  
the head mounting display.--

If the Examiner has any comments, questions, objections or recommendations, the Examiner is invited to telephone the undersigned at the telephone number given below for prompt action.

Respectfully submitted,

  
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